	Application No.	Applicant(s)
Nation of Allowahility	10/786,541	MAEDA ET AL.
Notice of Allowability	Examiner	Art Unit
	Lana N. Le	2618
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $\underline{2/26/04}$.		
2. The allowed claim(s) is/are 1 and 7-9.		
3. Acknowledgment is made of a claim for foreign priority up a) All b) Some* c) None of the:		
1. 🛛 Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summan Paper No./Mail Da	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛭 Examiner's Amend	
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9.	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with applicant's representative, Zachary Stern, on 11/26/06.

-cancel claims 2-6 and 10-14.

Drawings

Figures 1-2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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REASONS FOR ALLOWANCE

- 3. Claims 1, 7-9, and 15-16 are allowable over the cited prior art.
- 4. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1, Gao et al (US 6,603,958) disclose a radio communication system, comprising:

a radio receiver (CPE units 40, 50, 60) including an interference canceller configured to generate a replica of a received signal and remove an interference signal from the received signal, and a frequency offset estimator (D/S frequency offset measurement and U/S frequency offset calculation; fig. 6) configured to estimate a carrier frequency offset between a carrier frequency of the interference signal and a carrier frequency of a desired signal included in the received signal (fig. 6); a radio transmitter including a frequency controller (BTS 30) configured to adjust a carrier frequency of a transmitted desired signal (calculate and apply D/S frequency adjustment; see fig. 6).

However, Gao et al and the cited prior art fail to disclose:

a radio transmitter including a frequency controller configured to adjust a carrier frequency of a transmitted desired signal to the carrier frequency of the interference signal based on the carrier frequency offset received from the radio receiver.

Regarding independent claim 7, Gao et al disclose a radio station, comprising:

a frequency controller configured to adjust a carrier frequency of a transmitted desired signal based on a carrier frequency offset estimated by a radio receiver (calculate and apply D/S frequency adjustment; fig. 6).

However, Gao et al and the cited prior art fail to disclose:

the interference signal based on the carrier frequency offset.

a frequency controller configured to adjust a carrier frequency of a transmitted desired signal to a carrier frequency of an interference signal based on a carrier frequency offset between the carrier frequency of the interference signal and a carrier frequency of a desired signal, and estimated by a radio receiver.

Regarding independent claim 15, Gao et al disclose a radio communication method, comprising: estimating a carrier frequency offset between a carrier frequency of an interference signal and a carrier frequency of a desired signal included in a received signal (D/S frequency offset measurement and U/S frequency offset calculation; fig. 6). However, Gao et al and the cited prior art fail to disclose: adjusting a carrier frequency of a transmitted desired signal to the carrier frequency of

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N. Le whose telephone number is (571) 272-7891. The examiner can normally be reached on M-F 9:30-18:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lana Le

LANA LE PRIMARY EXAMINER